

### **Abstract**

The present invention relates to a method, system and computer program product for the predictive encoding of digital video sequences. The objectives of the invention are accomplished by dynamically determining the resolution of a current frame being encoded and outputting the determination. The determination process is based on statistical and coding information of a plurality of frames, including at least one previous frame and the current frame. Further, general encoding parameters and the encoding parameters of a current frame at a chosen resolution are determined, wherein the encoding parameter selection step takes into account the determination of the dynamic resolution determination step in determining the encoding parameters.